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**Department of Energy**  
Richland Operations Office  
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SEP 24 2007

07-AMCP-0293

Ms. J. A. Hedges, Program Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
3100 Port of Benton Boulevard  
Richland, Washington 99354

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SEP 26 2007  
**EDMC**


Dear Ms Hedges:

**ANNUAL PROGRESS REPORT ON REMOTE-HANDLED MIXED WASTE AND  
CONTACT-HANDLED MIXED WASTE IN BOXES/LARGE CONTAINERS**

The purpose of this letter is to transmit the Annual Progress Report on Remote-Handled Mixed Waste and Contact-Handled Mixed Waste in Boxes/Large Containers. The report describes completed and scheduled work relating to remote-handled waste and large container contact-handled and remote-handled waste performed in accordance with the requirements of the Tri-Party Agreement Milestone M-91 series. This completes the Tri-Party Agreement Interim Milestone M-91-45 requirement for 2007.

If there are any questions, please contact me, or your staff may contact, Mark French, of my staff, on (509) 373-9863.

Sincerely,

  
Matthew S. McCormick Assistant Manager  
for the Central Plateau

AMCP:GLS

Enclosure

cc: See Page 2

Ms. J. A. Hedges  
07-AMCP-0293

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cc w/encl:  
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D. G. Singleton, Ecology  
R. Skinnarland, Ecology  
J. G. Vance, FFS  
Administrative Record (M-91)  
Environmental Portal

# **ANNUAL PROGRESS REPORT ON REMOTE-HANDLED (RH) MIXED WASTE AND CONTACT-HANDLED (CH) MIXED WASTE IN BOXES/LARGE CONTAINERS**

As required by Tri-Party Agreement Milestone M-91-45, this report has been prepared to describe work completed during Fiscal Year (FY) 2007 on remote-handled (RH) mixed waste and contact-handled (CH) mixed waste in large containers and to identify work scheduled for these waste streams in FY 2008.

## **FY 2007 Accomplishments**

- No remote-handled (RH) and large-container Land Disposal Restriction (LDR) Report Treatability Group Mixed Low-level Waste (MLLW)-07 waste was treated or disposed in FY 2007, due to the emphasis on treating MLLW meeting the requirements of Tri-Party Agreement Milestones M-91-12 and M-91-42 (i.e., LDR Treatability Groups MLLW-02, 03, 04, 05, 06, 08, 09 and 10). A cumulative total of 194 m<sup>3</sup> of MLLW-07 waste has been treated and disposed.
- Revisions to the PermaFix Northwest (PFNW - formerly Pacific EcoSolutions [PEcoS]) contract have been completed which has expanded the capability to treat larger MLLW packages.
- The Environmental Restoration Disposal Facility (ERDF) continues to be used in FY 2007 to dispose of other MLLW Treatment Groups (i.e., MLLW-04A/B). The ERDF Record of Decision (ROD) Amendment was approved, which allows disposal of multiple LDR treatability groups, including MLLW-07 waste.
- Critical Decision zero (CD-0) documentation was submitted to DOE-HQ for the Solid Waste Processing Center (SWPC) capital construction project. This project will support RH and large container processing (M-91-43 and M-91-44) that can not be provided by in-trench treatment, or existing commercial or Hanford facilities. Approval of CD-0 will allow initiation of conceptual design. A Fluor Hanford, Inc. Project Manager was hired and a Project Team established.
- Several alternative studies were initiated to evaluate various processing options for RH and large-package CH wastes. Alternatives being evaluated include the construction of a new Solid Waste Processing Center (SWPC) facility instead of the current T Plant baseline, upgrades to establish earlier on-site processing capabilities and capacities for selected waste packages (generally CH Transuranic (TRU) waste packages less than 10 m<sup>3</sup>), construction of a RH TRU loading station for earlier waste shipment to the Waste Isolation Pilot Plant (WIPP) in New Mexico, and expanding the use of commercial processing for MLLW-07 waste packages.

- Discussions were held with the State of Washington Department of Ecology (Ecology) for implementation of in-trench treatment and proposed revised mixed waste trench Part A language.
- Started retrieval of RH waste from the Low-Level Burial Grounds. Test Reactor Isotope General Atomics (TRIGA) spent fuel previously managed as RH TRU was removed from burial ground 218-W-4C and transferred to the 200 Area Interim Storage Area.
- The Tri-Party Agreement Milestone M-91 Project Management Plan (PMP) was updated twice in FY 2007, once in December 2006 and again in August 2007.

### **Planned FY 2008 Activities**

- Re-initiate treatment at PFNW of some of the large MLLW packages.
- Continue disposal of MLLW in the Mixed Waste Disposal Trenches (MWDT) trenches and at ERDF.
- Formally submit revised Low-level Burial Ground Part A to expand capability in the MWDTs to include in-trench treatment.
- Complete alternative evaluations for waste processing by March 2008 and revise the baseline for those alternatives selected. Initiate conceptual design for the SWPC project.
- Revise the M-91 PMP in June 2008 to reflect results from the alternatives evaluations, reflect cleanup progress, and to incorporate the updated President's budget.
- Continue retrieval of some RH waste as it is encountered during CH retrieval.

### **Publicly Available Reports**

1. Letter 06-AMCP-0314 Matthew S. McCormick to Jane Hedges, "Completion of Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) interim milestone M-91-45, submit to Ecology a report describing completed and scheduled work relating to remote-handled (RH) waste and boxes and large containers of RH and contact-handled (CH) waste", September 29, 2006.
2. Amended Record of Decision for the ERDF Environmental Restoration & Disposal Facility, U.S. Department of Energy and Environmental Protection Agency Region X, May 2007.
3. HNF-19169 Rev. 3, "M-91 TRU Mixed/Mixed Low-Level Waste Project Management Plan", August 2007.

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